GHINTSCVA, G.A.; VAULIN, Yo.P.

Use of a Fabry-Perot interferemeter with photo-loctric recording in measuring the velocities of particles in a rotating plasma.

Ziam. prikl. spokt. 3 no. 2:105-108 Ag *65. (MIAA 18:12)

1. Submitted March 1, 1965.

EVT(1)/EPF(n)-2/EVG(m)/EPA(w)-2IJP(c) ΑT L 01290-66 UR/0386/65/003/002/0105/0108 ACCESSION NR: AP5021486 537.531:535.3 AUTHOR: Odintsova, G. A.; Vaulin, Ye. P. TITLE: Using a photoelectrically recording Fabry-Perot interferometer to measure the velocities of particles in a rotating plasma SOURCE: Zhurnal prikladnoy spektroskopii, v. 3, no. 2, 1965, 105-108 TOPIC TAGS: plasma physics, interferometer, particle acceleration, gas discharge ABSTRACT: The rotational velocities of atoms and ions were determined from the Doppler shift in spectral lines. A plasma accelerator of the acyclic type was used, operating in steady-state conditions. A high-current gas discharge (about 300 amps) was produced in argon at a pressure of 1 mm Hg between the cathode and the anode, which were made in the form of coaxial cylinders. The whole system was located in a homogeneous 800 oersted magnetic field parallel to the accelerator axis. The plasma in the anode (the outside electrode) was observed through slits. A Fabry-Perot interferometer-spectrograph combination was used for the observations. The interference pattern was recorded both photographically and photoelectrically. One of the **Card** 1/4

L 01290-66

ACCESSION NR: AP5021486

photoelectric recordings for Ar I lines at 4158.6 Å is shown in fig. 1 of the Enclosure. The Doppler shift due to plasma rotation was measured by recording the lines alternately from different sections of the accelerator located symmetrically on both sides of the cathode. The figure shows two systems of superimposed lines. The peaks marked "+" were recorded on one side of the cathode, while those marked "-" were recorded on the other side at an equal distance. The shift $\Delta \nu$ in one system of lines with respect to the other is related to the linear velocity of rotation in a given annular layer of the plasma by the expression $\Delta v = v_0 \frac{2v}{0}$, where v_0 is the frequency of the spectral line and c is the velocity of light. The average error in measurements was *0.01 cm⁻¹, which corresponds to a particle velocity of approximately 100 m/sec. A comparison between the photoelectric and photographic methods in measurements of the distribution of velocities of argon ions is shown in fig. 2 of the Enclosure. Since line shape does not figure in the photographic method of measurement, the photoelectric method is preferable, particularly in cases where the lines are asymmetric. Orig. art. has: 4 figures.

ASSOCIATION: none

SUBMITTED: 01Mar65

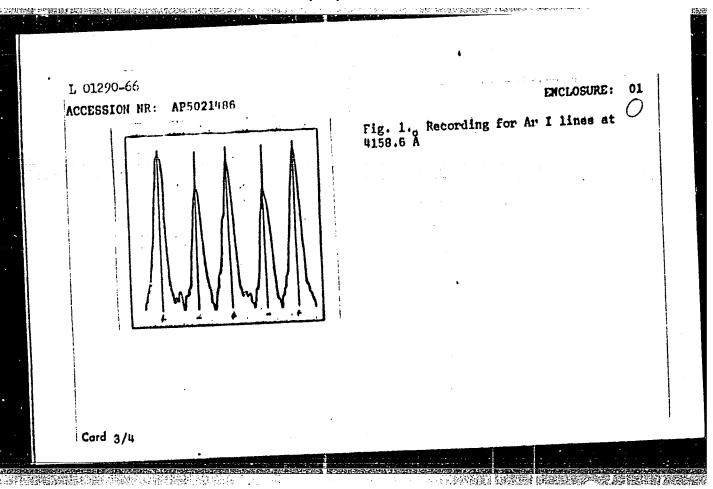
ENCL: 02

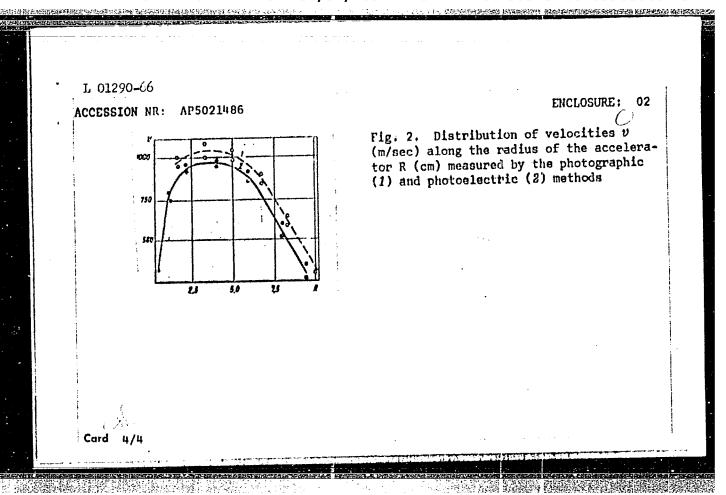
SUB CODE: ME

NO REF SOV: 003

OTHER: 002

Card 2/4





VAULIN Ye. P., and SHIROKOV, M. F.,

"Techeniya Neizotermicheckoy Plazmy s Bol'shimi. (High Velocity Non-Isothermal Plasma Flows)"

report presented at the Intl., Symposium on High Temperature Technology held at Asilomar, California, 8-11 Sep 63.

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001859030002-3"

VAULIN, Ye.P.; GVOZDKOV, N.N.

Diffusion type thermal shielding by means of a porous plate in a gas dynamic flow through percolation of a liquid and physicochemical reaction in a laminar boundary layer. Zhur.tekh. fiz. 32 no.2: 238-247 F '62.

1. Kafedra statisticheskoy fiziki i mekhaniki Moskovskogo gosudarstvennogo universitata, fizicheskiy fakul'tet. (Heat--Transmission) (Gas flow) (Boundary layer)

L 21580-66 EVT(1)/EVP(e)/EVT(m)/EPF(n)-2/EVG(m)/EWP(v)/EVP(j)/T/ETC(m)-6/EVIA(1) ACC NR: AT5006912 IJP(c) JD/IG/WW/JW/GS/RM/WH AUTHOR: Vaulin, Ye. P. ORG: Moscow Aviation Institute (Moskovskiy aviatsionnyy institut)	
TITLE: Some problems in the theory of aboundary layer with physics	
SOURCE: Teplo- i massoperenos. t. II: Teplo- i massoperenos pri vzaimodeystvil tel SOURCE: Teplo- i massoperenos. t. II: Teplo- i massoperenos pri vzaimodeystvil tel Source: Teplo- i massoperenos. t. II: Teplo- i massoperenos pri vzaimodeystvil tel source: Teplo- i massoperenos. t. II: Teplo- i massoperenos pri vzaimodeystvil tel source: Teplo- i massoperenos. t. II: Teplo- i massoperenos pri vzaimodeystvil tel source: Teplo- i massoperenos. t. II: Teplo- i massoperenos pri vzaimodeystvil tel source: Teplo- i massoperenos. t. II: Teplo- i massoperenos pri vzaimodeystvil tel source: Teplo- i massoperenos. t. II: Teplo- i massoperenos pri vzaimodeystvil tel source: Teplo- i massoperenos. t. II: Teplo- i massoperenos pri vzaimodeystvil tel source: Teplo- i massoperenos. t. II: Teplo- i massoperenos pri vzaimodeystvil tel source: Teplo- i massoperenos. t. II: Teplo- i massoperenos pri vzaimodeystvil tel source: Teplo- i massoperenos. t. II: Teplo- i massoperenos pri vzaimodeystvil tel source: Teplo- i massoperenos. t. II: Teplo- i massoperenos pri vzaimodeystvil tel source: Teplo- i massoperenos. t. II: Teplo- i massoperenos pri vzaimodeystvil tel source: Teplo- i massoperenos. t. II: Teplo- i massoperenos pri vzaimodeystvil tel source: Teplo- i massoperenos. t. II: Teplo- i massoperenos pri vzaimodeystvil tel source: Teplo- i massoperenos. t. II: Teplo- i massoperenos pri vzaimodeystvil tel source: Teplo- i massoperenos pri vzaimodeystvil tel	
TOPIC TAGS: surface boundary layer, turbulent boundary layer, more property, ionized gas	سد بير ا
ABSTRACT: The author studies the exchange of heat and mass during physicochemical surface transformations due to the interaction between ionized gases and solids surface transformation of charged particles may have a considerable effect. The rewhere recombination of charged particles may have a considerable effect. Suppose the sults of this study may be used for analyzing heat and mass exchange in the sults of this study may be used for analyzing heat and mass exchange in the sults of this study may be used for analyzing heat and mass exchange in the sults of this study may be used for analyzing heat and mass exchange in the sults of this study may be used for analyzing heat and mass exchange in the sults of this study may be used for analyzing heat and mass exchange in the sults of this study may be used for analyzing heat and mass exchange in the sults of this study may be used for analyzing heat and mass exchange in the sults of this study may be used for analyzing heat and mass exchange in the sults of this study may be used for analyzing heat and mass exchange in the sults of this study may be used for analyzing heat and mass exchange in the sults of the sults of this study may be used for analyzing heat and mass exchange in the sults of the	-
Card 1/2	

L 21580-66 ACC NR: AT6006912

gases when there are no electrical or magnetic fields present. A complete system of equations is given for a laminar boundary layer in the general case including the diffusion equation for the i-th component of the mixture, as well as the equations of continuity, motion, and conservation of energy and state. Expressions are given for determining the total enthalpy, heat capacity, and specific enthalpy of the ideal gas which appear in this system of equations. These expressions are used for deriving a system of equations to describe stady-state processes in axially symmetric solids. The boundary conditions for the problem are analyzed and the case of a turbulent boundary layer with a zero pressure gradient on a sublimating surface is considered. Expressions are found for calculating the surface temperature, rate of disintegration, and concentrations of components. The resultant data may then be used for calculating the drag coefficient during turbulent flow close to a sublimating wall. Orig. art. has: 37 formulas.

SUB CODE: 20/ SUBM DATE: 09Nov65/ ORIG REF: 002/ ATD PRESS: 42/9

Card 2/2 UL

Name: WAULH., E. ..

Disservation: The composition and distribution of organ in some on a com-

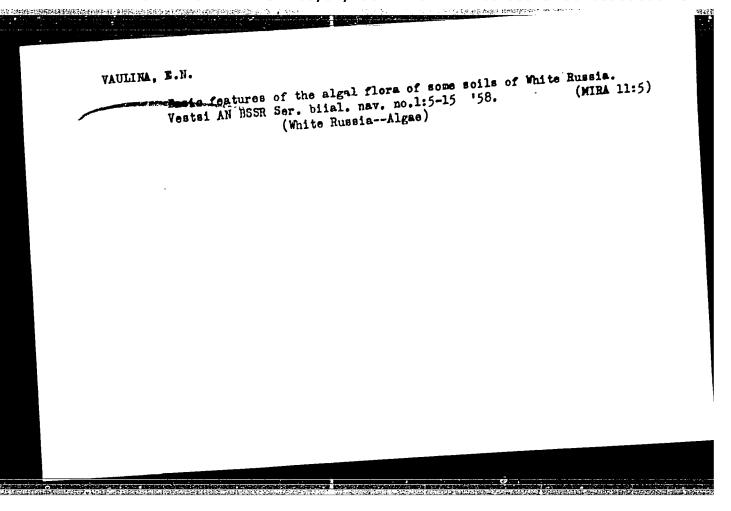
istic soils or sead

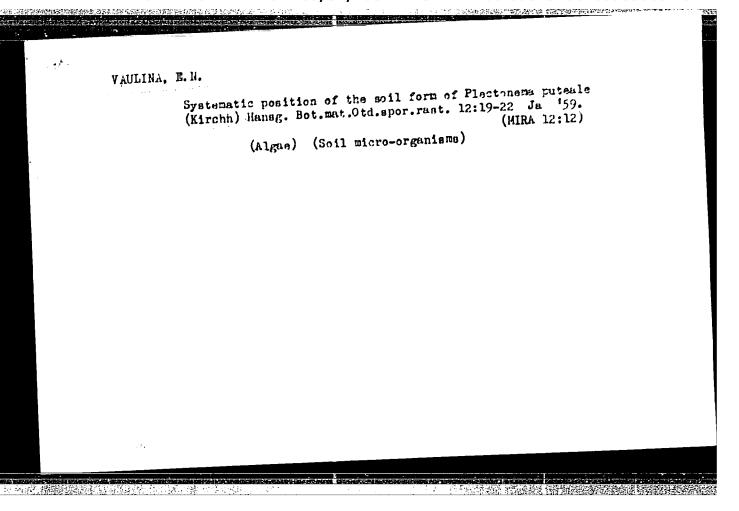
Degree: Cand Biol Sci

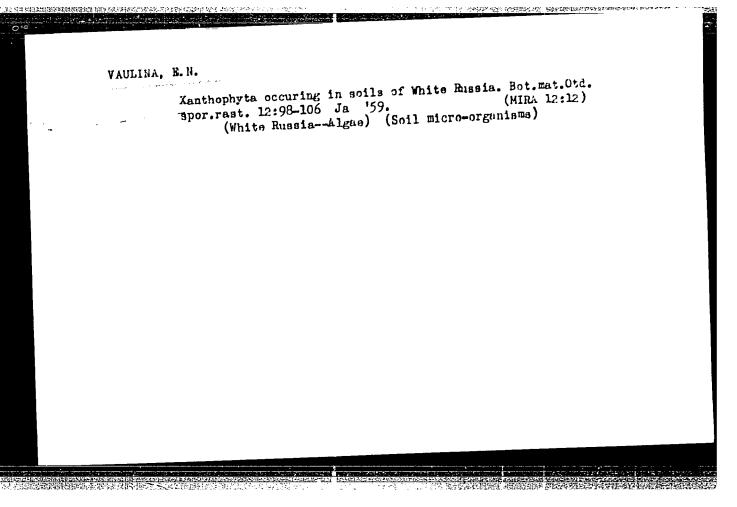
Acad Sci USON, notanical Inst ineni V. L. Komarov

tion Date, Place: 1956, Leningrad

Source: Knizhnaya Letopia', No by, 1990







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Pa-4 AMD DD

ACCESSION NR: AP5000095

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AUTHOR: Anikeyeva, I. D.; Vaulina, E. N.; Shevchenko, V. A.

TITLE: The action of ultraviolet rays on Chlorella

SOURCE: Radiobiologiya, v. 4, no. 6, 1964, 883-892

TOPIC TAGS: algae, Chlorella, UV radiation, mutation, population dynamics, genetics

ABSTRACT: Cultures of Chlorella vulgaris, terricols, and ellipsodea wors exposed to UV radiation from two BUV-15 lamps. These lamps, which emit 80% of their energy in the 2537-Å range, were placed 25 cm from the surface of 1-ml suspensions of the above algae. Exposure durations ranged from 30 sec to 16 min. It was found that sensitivity to UV varied according to the species. A "LARG-1" strain of Chlorella vulgaris was found to be the one most resistant to UV damage. In general, the viability curve, plotted as a function of the UV dosage, had a sigmoid shape. Mutation frequency as a function of the UV dosage was studied for the LARG-1 strain only and was found to increase to a

Cora 1/2

L 16623-65 ACCESSION NR: AP5000095

maximum level followed by a decrease as the dosage was further increased. It was concluded that UV acts on the irradiated cell for several generations, ultimately altering the entire dynamics of population growth. Orig. art. has: 7 tables and 8 figures.

ASSOCIATION: Institut biologicheskoy fiziki Akademii nauk SSSR, Hoscow (Institute of Biological Physics, Academy of Sciences, SSSB)

SUBMITTED: 27Apr63

ENCL: 00

SUB CODE: LS

OTHER: 026

ATD PRESS: 3147

NO REF SOV: 002

Card 2/2

.8/0217/64/009/003/0393/0394 ACCESSION NR: AP4038937 AUTHOR: Vaulina, E. N.; Anikeyeva, I. D. TITIE: Evaluation of the productivity of Chlorella strains in liquid culture SOURCE: Biofizika, v. 9, no. 3, 1964, 393-394 TOPIC TAGS: Chlorella strain, Chlorella productivity, Chlorella culture, non circulating medium, optimal productivity period, optimal productivity formula, autospore number, cell division duration, Chlorella growth coefficient ABSTRACT: Growing of these algae in containers with a non-circulating medium while a mixture of CO2 and air is blown through is a convenient culture method which is particularly adapted to the selection of strains. This however requires finding the time of optimal productivity, since productivity decreases rapidly in such a medium. The following formulas are presented for finding this period.

Nt = Noekt

(1) where No is the number of cells at the start, Nt the number of cells at time t; e, the natural logarithm; k,a constant depending upon the properties of the given organism and culture conditions, called coefficient of rate of growth. Card : 1/3

accession hr: AP40	038937	-	i
	$k = \frac{1}{t} \log \frac{N_t}{N_0}$	(2)	:
	$k = \frac{1}{T} \log \left[1 + x(a-1) \right]$	(8)	
a - number of auto	Photos		ŧ
The theoretical an agreed satisfactor	iding cells all division cycle and experimental results are compared rily for the 1st and 2nd day of culti	for selection, and x an indi-	
x - number of divi T - duration of ce The theoretical an agreed satisfactor optimal. The valu cator of culture of	iding cells all division cycle and experimental results are compared rily for the 1st and 2nd day of cult ues a, T, and k are useful criteria; condition. Orig. art. has 1 table, titut biologicheskoy fiziki AN SSSR,	for selection, and x an indi- 8 formulas, and 1 figure.	

ACCESSION NR: AP4038937 SUB CODE: LS NO REF SOV: 002

Card 3/3

VAULINA, E.N.; ANTREYEVA, I.D.

Evaluation of the productivity of Chlorella strains. Genetika (MIRA 19:1) no.5:176 N *65.

1. Institut biologicheskoy fiziki AN SSSR, Moskva. Submitted Angust 12, 1965.

VAULINA, E.N.; ANIKEYEVA, I.D.; SHEVCHENKO, V.A.

为**过程是重要的证明**和13年13年15日,15日本的15日本

Effect of 1,4-big diazoacethylbutene and its combination with ultraviolet rays on Chlorella. Genetika no. 6:56-60 D '65 (MIRA 19:1)

1. Institut biologicheskoy fiziki AN SSSR, Moskva.

ANIKEYEVA, I.D.; VAULINA, E.N.; SHEVCHENKO, V.A.

Effect of ultraviolet rays of Chlorella. Radiobiologia 4 no.6:883(MIRA 18:7)
892 '64.

1. Institut biologicheskoy fiziki AN SSSR, Moskva.

ENT(m)/MMP(t)/MTI Id:(c) DOURCE CODE: UR/0270/00/000/000/150mg/25000 L 11287-67 AX6025350 ACC NR: AUTHOR: Kolesov, S. H.; Vanling, Yu. P. TITIE: A method for silverplating steel components SOURCE: Ref. zh. Tekhnologiya mashinostroyeniya, Abs. 31304 REF SOURCE: Sb. Vopr. teorii i nadezhnosti apparatury i kanalov svyazi. Tannkent, Nauka, 1965, 140-141 TOPIC TAGS: copper plating, metal plating, silver ABSTRACT: The article is a report on development of a simple and economic method for depositing a copper sublayer on steel components for subsequent silverplating. Before application of the copper coating, the components are degreased and scoured and then washed in water. The copper plating is done in an electrolyte with the following composition (in g/1): copper sulfate--31, ammonia--6.5, glycerin--18 and caustic soda--14. Any widely used method is then used for silverplating. [Translation of abstract] SUB CODE: 11 UDC: 621.357.7:669.228 Card 1/1 jb

HOW to preserve lemons. Obshchestv.pit. no.12:11 D 160. (MIRA 13:12)
1. Zaveduyushchiy proizvodstvom restorana "Altay," Ust'-Kamenogorsk- (LemonPreservation)

VAUPSHASOV, STANISIAV ALEKSEYEVICH

Partizanskaya khronika. Moskva, Voyenizdat, 1959.
470 p. illus. 21 cm.

MOZOLEVSKAYA, Ye.G.; VAVAK, Z.

The complex of insects feeding on leaves in the floodplain stands of the Khoper Preserve. Trudy Khop. gos. zap. no.4:75-92 61. (MIRA 16:3) (Khoper Preserve—Forest insects)

NOVIKOV, A.N., prof.; GARIN, N.D., doktor med.nauk; GOL*BERT, Z.V., kand.med.nauk; VOLKOVA, M.A., kand.med.nauk; KISELEVA, Ye.S., kand.med.nauk; MATVEYEVA, T.N., kand.med.nauk; VAVAKIN, A.D., kand.med.nauk

Initial experience in the combined treatment of pulmonary cancer. Khirurgiia no.8:22-28 Ag 162. (MICA 15:8)

1. Iz Gosudarstvennogo nauchno-issledovatel'skogo onkologicheskogo instituta imeni P.A. Gertsena (dir. - prof. A.N. Novikov) Ministerstva zdravookhraneniya RSFSR.

(LUNGS--CANCER)

VAVAKIN, A.D.

Results of the preoperative use of chemotherapy in compound treatment of pulmonary cancer. Antibiotiki 10 no.10:940-945 (MIRA 18:12)

1. Nauchno-issledovatel'skiy onkologicheskiy institut imeni P.A. Gertsena Ministerstva zdravookhraneniya RSFSR, Moskva. Submitted June 1, 1965.

CIA-RDP86-00513R001859030002-3 "APPROVED FOR RELEASE: 08/31/2001

R-1

VAVAKO, D

ALBANIA / Diseases of Farm Animals. Diseases

Caused by Bacteria and Fungi

Abs Jour: Ref Zhur-Biol., No 2, 1958, 7305

Author : Dhimiter Vavako

: Not Given Inst

: Enterotoxemia of Sheep Title

Orig Pub: Bul. Shkenc. natyr. 1956, No 2, 3-26 (Alb.;

rez. frants.)

Abstract: In Albania, the enterotoxemia of sheep was observed, losses from which reached 20 percent of

the livestock. The causal agent - Bacillus

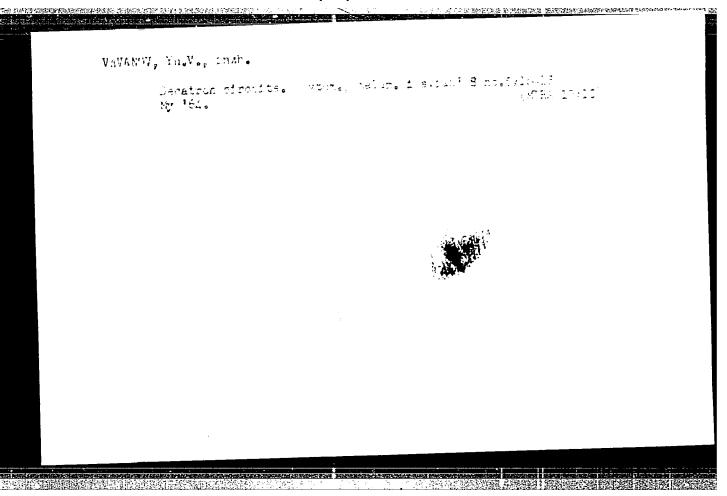
paludis. Activation of the pentrative or saprophytic stimulant in the organism, is furthered by disturbances of gastric secretions, upon the eating of frozen feed, and changes in the organism connected with giving birth, therefore,

Card 1/2

VAVAKO, Dimitr, doktor

Veterinary service in Albania. Veterinariia 36 no.4:79-81 Ap '59. (MIRA 12:7)

l.Direktor Albanskogo instituta veterinarnykh issledovaniy. (Albania--Veterinary hygiene)



WAVANOV, Yu.V.

Radar method for measuring the acceleration of uncoupled sections in hump yards. Avtom., telem. i sviaz' 8 no.10:8-11 0 '64.

(MIRA 17:11)

1. Starshiy inzh. laboratorii radiosvyazi Vsesoyuznogo nauchnoiseledovatel'skogo instituta zheleznodorozhnogo transporta Ministerstva putey soobshcheniya.

majora, tal garas in in the treatment	Measuring the slowing down of the cuts in the braking position. Vest. TSNII MPS 23 no.7:30-35 '64. (MIPA 18:3)				
	Weasuring the Vest. TSNII M	PS 23 no.7:30	-35 164.	. III 9113 DI	(MIPA 18:3)

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VAVAYEVA, L.A.; ARTEM'YEVA, V.V.

Periodicity of change in composition of oils and gases in Devonian and Carbonaceous series in the Saratov Volga Valley region. Geol. nefti i gaza 8 no.12:13-18 D '62. (MIRA 18:2)

l. Nizhnevolzhskiy nauchno-issledovatel'skiy institut geologii i geofiziki.

ARTEM YEVA, V.V.; VAVAYEVA, L.A.

Relation of the composition of Jivet oils in the Volga Valley portion of Saratov Province to the geological conditions governing the existence of pools. Trudy NVNIIGG no.1:58-62 '64. (MIRA 18:6)

MASHKOVICE, K.A.; VAVAYEVA, L.A.

Middle Devonian Riphean massifs in the Volga Valley protion of Saratov Province. Geol.neft i gaza 6 no.10:47-50 0 '62. (MIRA 15:12)

1. NVNIIGG.

(Saratov Province-Oil snads)

Study of chromatic 147-150 163	; fatigue in myasthe	nia. Trudy l-go ! (MI)	M1 223 RA 1783)
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MOKEYEVA, T.M.; VAVER, L.D.

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Some data on the effect of zinc phosphide on the lesser suslik kept in an area seeded with baits containing this poison.

Trudy VIZR no.12:130-137 '58. (MIRA 13:5)

(Zinc phosphide) (Susliks)

81554

s/062/60/000/05/03/008 8004/8066

5,3700C

AUTHORS:

Mikhaylov, B. M., Vaver, V. A.

TITLE:

Vorganoboron Compounds. 56. Synthesis of Trialkylborons From Metaborates and Their Conversion Into Dialkyl Boric Acid Esters

PERIODICAL:

Izvestiya Akademii nauk SSSR. Otdeleniye khimicheskikh nauk, 1960, No. 5, pp. 852-856

TEXT: A thorough investigation of the reaction of trimeric metaborate with Grignard reagent in vacuo at low temperature and in the presence of water excess revealed that the formation of dialkyl boric acid esters takes place via the intermediate stage of trialkylborons. At 9 - 9.5 M Grignard reagent 70 - 80% trialkylboron was obtained, i.e.; triisopropylboron, tri-n-butylboron, and triisoamylboron. To check the assumption that the esters of the dialkyl boric acids are formed only by reaction of trialkylborons with alcohol, the afore-mentioned trialkylborons were allowed to react with cyclohexyl-, sec.-octyl- and isoamyl alcohol, and the following compounds were obtained: sec.-octyl ester of the di-iso-

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Card 1/3

Organoboron Compounds. 56. Synthesis of Trialkylborons From Metaborates and Their Conversion B004/B066

Into Dialkyl Boric Acid Esters

propyl boric acid, cyclohexyl ester of the diisopropyl boric acid, iso-amyl ester of the di-n-butyl boric acid, phenyl ester of the diisoamyl boric acid. The data of these compounds are given in a table. The authors discuss the course of the reaction between trialkylborons and alcohols and give the following reaction equations:

 $R_3B + R^3OH \longrightarrow R_3B+O^{'H}_{R^1}$ (Formation of a complex compound (I)). This compound decomposes according to equation (1): $R_3B+O^{'H}_{R^1}\longrightarrow R_2BOR^3+RH$, or reacts according to equation (2) to form the complex (II):

 $R_3^{B_6O(\frac{H}{R^*})} \longrightarrow R_2^{BH_6O(\frac{H}{R^*})} + \text{olefin. The complex (II) decomposes according to equation (3): } R_2^{BH_6O(\frac{H}{R^*})} \longrightarrow R_2^{BOR^*} + H_2^*$. The rate of the reactions (1) and (2) = (3) depends on the nature of the trialkylboron and alcohol applied. In the case of sec.-octyl alcohol and triisopropylboron the ratio of the two reaction rates is 1: 2.5. The reaction with cyclo-hexanol takes place according to equations (2) and (3), whereas in the reaction of tri-n-butylboron with isoamyl alcohol both reactions proceed Card 2/3

Organoboron Compounds. 56. Synthesis of Trielcyl-81554 borons From Motaborates and Their Conversion \$/062/60/000/05/03/009 Into Dialkyl Boric Acid Esters B004/B066

with equal rate. As may be seen from the preparation of the phenyl ester (at 170 - 180°C), the reaction is possible also with phenols. There are 1 table and 8 references: 4 Soviet, 2 German, and 2 American.

ASSOCIATION: Institut organicheskoy khimii im. N. D. Zelinskogo Akademii nauk SSSR (Institute of Organic Chemistry imeni N. D. Zelinskiy of the Academy of Sciences, USSR)

SUBMITTED: November 3, 1958

Card 3/3

CIA-RDP86-00513R001859030002-3" **APPROVED FOR RELEASE: 08/31/2001**

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Synthesis of dichlorotetrapyridine cobaltic hexachloroplambate. A. F. Kajustinskii and V. A. Vaver (D. 1.
Mendeleev Chem. Technol. Inst., Moscow). Invol. Abad.
Nauk S.S.S.K., Oldel. Khim. Nauk 1951, (31] 3.—In the
absence of direct data, the heat of the reaction PbCl_k—
absence of direct data, the heat of the reaction PbCl_k—
absence of direct data, the heat of the assumption that the
heats of formation of the homologous ions PbCl_k—and
SnCl_k—stand in the ratio of the logarithms of the at. nos.
of Pb and Sn. The heat of formation of the PbCl_k—ion is
thus taken to be 10.5 kcal. The heat of formation (O of a
complex hexachloroplumbate M₁PbCl_k is then calcd. by the
usual thermochem. cycle, gi ing Q = U₀ + U + E₁, where

I we energy of formation of the complex ion from the gase-ous ions and addends, and the lattice energies U and U_s, of the simple and of the complex salt, are calcd, with the abl of K.'s equation from the ionic radii r. The result is that, for M₁PbCl₂, Q > 0 if the radius of the cation r₂ > 1.2 A I his accounts for the fact that only herachloroplumbates of NI₄, K., Rh, and C., have been described. Salts of large complex cations should be stable, except for readily ossilizable cations, e.g. those contg. CO(NI₂h), which are unstable on account of the high oxidation potential of Ph². A new hexachloroplumbate of a complex cation was synthetized successfully from [Cot C₁H₁N₁Ch₁Cl₂H₂O(1) and H₂(PbCh₁ (II). To prep. I, 30 g. C₂H₂N₃Ch₁Cl₃H₄O(1) and H₂(PbCh₁ (II) in 30 ml. H₂O; the resulting dark-blue side, was treated with a stream of Ch₂ with the temp, kept below 10°. The yield of dry I, gray-green crystals, is 10 g.; the anivel, salt is green blue. If was obtained by electrolysis of HC of d. 1.18 with Ph anodes. A soln. of 2.635 g. I in 150 ml. H₂O reacted with an amt. of II contg. 0.5251 g. Ph, giving green [Co(C₂H₂N₂Ch₃]₁[PbCh₄].0H₂O (III), which becomes anhyd. over P₂O₃. This salt is Insol. in dil. inorg. acids, and hydrolyzes slowly in H₂O to PbO₃.

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6

VAVER

The Hofmann reactions with amides obtained and the product treated acids. V. M. Rodinovy, B. G. Aleisseeva and V. A. Veter (D. L. Mendeleeve Chem. Peciniol. 1883. Moscowh. Dest yields of altehydere Chem. Peciniol. 1883. Moscowh. Best yields of altehydere are obtained by trightness of arbrano-substituted acids with alk hyboridiorite with immediate removal of the aldehyde from the mist. This interact with NaCCI solu., as described above (solu.) derives, for chloro derives. In the reaction of Br. Gr. COMB., the formed instead of altehyders the latter forms if a Et. Cyl. formed instead of altehydes; the latter forms if a Et. Cyl. formed instead of altehydes; the latter forms if a Et. Cyl. formed instead of altehydes; the latter forms if a CHB. Coll., b. 189–2°; 2,4-dimitrophydylaracone, m. 93°. Cullin Coll., b. 189–2°; 2,4-dimitrophydylaracone, m. 93°. Cullin Coll., b. 180–2°; 2,4-dimitrophydylaracone, m. 93°. Cullin Coll., b. 180–2°; 2,4-dimitrophydylaracone, m. 93°. Cullin Coll., b. 180–2°; 2,4-dimitrophydylaracone, m. 180°. Chilo., b. 180–2°; 2,4-dimitrophydylaracone, m. 181.5°. Amolli, 3 m. 180. Chilo., b. 180–2°; 2,4-dimitrophydylaracone, m. 181.5°. Amolli, 3 m. 180. Chilo., b. 180–2°; 2,4-dimitrophydylaracone, m. 181.5°. Amolli, 3 m. 180. Chilo., b. 180–2°; 2,4-dimitrophydylaracone, m. 181.5°. Amolli, 3 m. 180. Chilo., b. 180–2°; 2,4-dimitrophydylaracone, m. 181.5°. Amolli, 3 m. 180. Chilo., b. 180–2°; 2,4-dimitrophydylaracone, m. 181.5°. Amolli, 3 m. 180. Chilo., b. 180–2°; 2,4-dimitrophydylaracone, m. 181.5°. Amolli, 3 m. 180. Chilo., b. 180–2°; 2,4-dimitrophydylaracone, m. 181.5°. Amolli, 3 m. 180. Chilo., b. 180–2°; 2,4-dimitrophydyla

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001859030002-3"

BERGEL'SON, L.D.; VAVER, V.A.; BEZZUBOV, A.A.; SHEMYAKIN, M.M.

Unsaturated acids and macrocyclic lactones. Report No.13: New synthetic path for obtaining the divinylethane system. Izv. AN SSSR. Ser. khim. no.8:1453-1456 Ag '64.

1. Institut khimii prirodnykh soyedineniy AN SSSR. (MIRA 17:9)

VAVER, V. H.

USSR/ Chemistry - Organic chemistry

Card 1/1

Pub. 22 - 30/62

Authors

Mikhaylov, B. M., and Vaver, V. A.

Title

Diphenylboric acid and its derivatives

Periodical : Dok. AN SSSR 102/3, 531-534, May 21, 1955

Abstract

* Special experiments were made to prove that the statements of German chemists A. Michaelis (1894), and W. Koenig (1930) regarding the synthesis and properties of diphenylboric acid and its derivatives are false. It is the contention of the authors that the basic material and type of reaction as described by the German scientists would rather have led to the formation of diaryl borates and not diphenylboric acid or diphenyl borates. The properties of diphenylboric acid and its derivatives as determined by this experiment prove beyond any doubt that the German chemists did not deal with diphenylboric acid. Five German references (1894-1954).

Institutiin: Acad. of Sc., USSR, The N. D. Zelinskiy Inst. of Organ. Chem.

Presented by: Academician B. A. Kazanskiy, January 11, 1955

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001859030002-3"

Vaver, V. A.

"The synthesis and transformation of diaryl borie tolds." 'cad Set USCR. Inst of Organic Chemistry imeni N. D. Telinskiy, Poscow, 1956 (Discortation for the degree of Gradidate in Chemical Sciences)

Knishnaya letopis!
No. 25, 1956. Noscow

USSR/ Organic Chemistry - Synthetic organic chemistry E-2 Abs Jour : Referat Zhur - Khimiya, No 4, 1957, 11792 Author : Mikhaylov B.M., Vavar V.A. (Communication 8) Mikhaylov B.M., Shehegoleva T.A. (Communication 9) Department of Chemical Schiences, Academy of Sciences USSR Inst : Organic Boron Compounds. Communication 8. Synthesis and Properties Title of Diaryl-Boric Acids. Communication 9. On Action of Phosphorus Pentachloride on Esters od Dialkyl-Boric and Alkyl-Boric Acids. Synthesis of Dialkyl Borochlorides and Esters of Alkyl-Chloroboric Acids. : Izv. SSSR, Otd, khim. n, 1956, No4, 451-456; 508-509. Orig Pub Abstract : Communication 8. Description of synthesis of $(\alpha - c_{10} E_7)_2 BOH$ (I), $(p-Brc_6H_4)_2BOH$ (II) and $(p-Clc_6H_4)_2B(OH).H_2O$ (III) and study of the properties of the acids and their derivatives. (%- $c_{10}^{H_7}$) $_2^{BOC}$ $_4^{H_9}$ -iso (IV), $(p-BrC_{6}^{H}_{4})_{2}^{BOC_{4}H_{9}}$ -iso (V) and $(p-ClC_{6}^{H}_{4})_{2}^{BOC_{4}^{H}_{9}}$ -iso (VI) were Card 1/6

USSR/ Organic Chemistry - Synthetic organic chemistry

E-2

Abs Jour : Referat Zhur - Khimiya, No 4, 1957, 11792

obtained from (iso- $C_{\downarrow}H_{9}O)_{3}B$ (VII) and the corresponding aryl-magnsium

bromides. IV, V and VI are not hydrolyzed by water and acids and form with alkalies complexes of the type $\left[\text{Ar}_2 \text{B}(\text{OC}_4 \text{H}_9\text{-iso})(\text{OH}) \right]$ Me (VIII).

Salts of VII are converted on heating in aqueous solutions to salts of diaryl-borenic acids $(Ar_2B(OH)_2)Me$ (IX). Hydrolysis of IV, V and VI

with aqueous solutions fo $NH_{\downarrow}OH$ or $Ba(OH)_2$ results not in salts of di-

aryl-boric acids but in complex salts IX (Me - NH_{μ}; Ba/2). Acids I, II and III were obtained on acidification of the salts IX. As a result of treatment of I with excess SOCl₂ was isolated ((\sim -C₁₀H₇)₂B)-2⁰ (X). Results of the investigation show that literature data 7 on II and III are erroneous. To 1 M ether-benzene solution of 0.5 mole \sim -C₁₀H₇MgBr are added at -30° 0.225 mole VII in 50 ml ether. After stirring for 7 hours at -75°, treating the reaction products with 350 ml of 5% HCl, the ether-benzene solution is dried over Na₂SO_{μ}.

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E-2

Abs Jour : Referat Zhyr - Khimiya, No 4, 1957, 11792

Residue after removal of solvents is diluted with isopentane, yield of IV 63%, MP 104-105° (from n-hexane). From filtrate, esterification of remaining iso-C₄H₉OH, were obtained 15% (\sim -C₁₀H₇)BOC₄H₉-iso, BP 166-

 $168^{\circ}/6$ mm, d_{μ}^{20} 0.9777. To a suspension of 10 g IV in 20 ml CH₃OH are

added 15 ml of 30% NH₄OH. Obtained 97.5% $/(\propto -c_{10}H_7)_2$ B(OH)₂// NH₄

(XI), MP 107-108° (from CH₃OH). Suspension of 4.94 g XI in 30 ml e-ther acidified with 5 ml HCl (1:1). From ether layer isolated 71.7% I, MP 114.5-115° (from petroleum ether). Solution of 2 g I in 5 ml SOCl₂ boiled 2 hours. After removal excess SOCl₂ obtained 98% X, MP 190-192° (from benzene + petroleum ether). From 0.65 mole p-BrC₆H₄MgBr (1 M solution) and 0.25 mole VII, after stirring for 8 hours at -75°, treatment with 450 ml of 5% HCl and esterification, were obtained 39% V, BP 161-163°/1 mm, (in N₂ current) and 37% p-BrC₆ H₄ B(OC₄H₉-iso)

BP 109-110°/1 mm, d_{\parallel}^{20} 1.1583. 2.25 g V mixed by shaking with 5 ml 30%

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USSR/ Organic Chemistry - Synthetic organic chemistry

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Abs Jour : Referat Zhur - Khimiya, No 4, 1957, 11792

 $\text{NH}_{\downarrow}\text{OH}$. Yield of $\left[\left(\text{p-Brc}_{6}\text{H}_{\downarrow}\right)_{2}\text{B}\left(\text{OH}\right)_{2}\right]$ NH_{\downarrow} (XII) 87.3%, MP 134-135°

(from benzene). From solution of 1.23 g V in 3.65 ml 0.8 N KOH, was slowly driven off, at $60\text{--}70^\circ$, in a current of N₂, the water. Residue crystallized from mixture $C_6H_6 \rightarrow CH_3OH$. Yield of $((p\text{--BrC}_6H_4)_2B(OH)_2K$

(XIII) 0.8 g. 1.65 g XII treated with dilute HCl, yield of II 864, MP 90-91° (from petroleum ether). II was also obtained from XIII. After stirring for 8 hours at -75° 0.6 mole p-ClC₆H_{$\rm L$}MgCl (1 M solution)

and 0.25 mole VII, treatment with 450 ml 5% HCl and esterification the reaction products are rapidly distilled in N stream. As a result of fractionation isolated 40% VI, BP $134-135^{\circ}/1^{2}$ mm, $d_{4}^{20}.1414$, and 25%

p-ClC₆H₄B(OC₄H₉-iso)₂, BP 93-95°/1 mm, d_4^{20} 1.0051.1.73 g VI shaken with 15 ml saturated solution of Ba(OH)₂. Obtained 89.5% $[p-ClC_6H_4]_2B(OH)_2$

Card 4/6 2 ZBa (XIV). 2 g XIV treated with 10 ml HCl (1:4). Crystals of III

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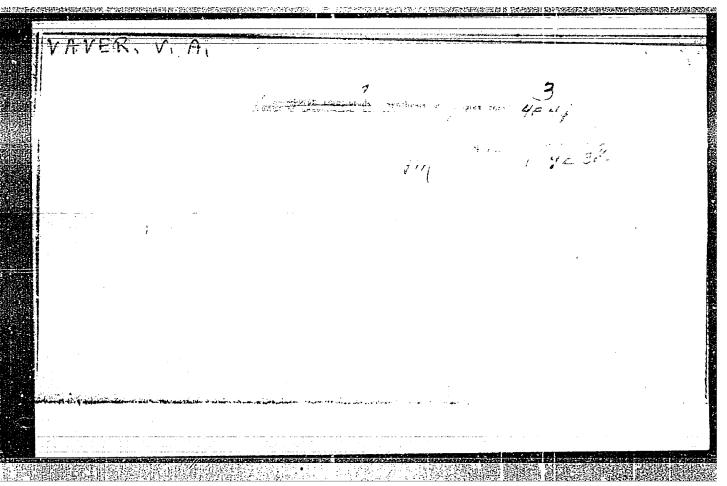
MIKHAYLOV, B.M.; VAVER, V.A.

Organoboron compounds. Theoremation of complex compounds of unsymmetric boron triaryls. Dokl. AE SSSR 109 no.1;94-97 Jl-Ag '56.

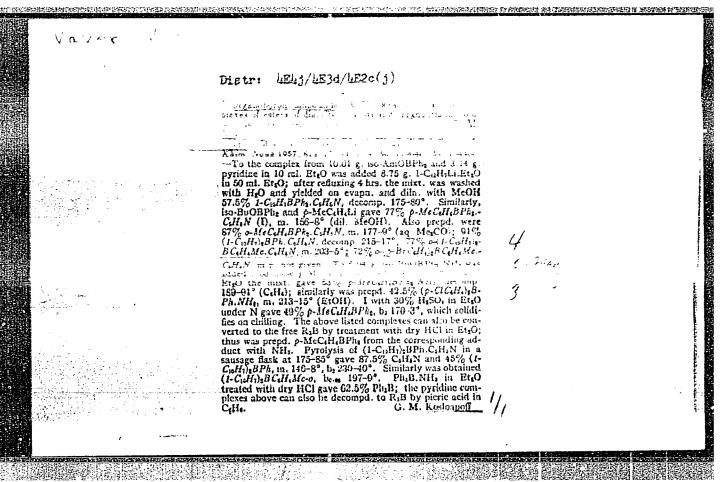
(MIRA 9:10)

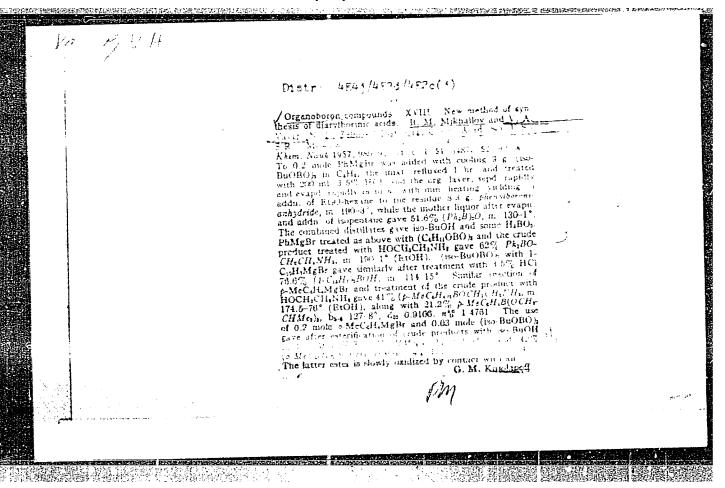
1. Institut organicheskoy khimii imeni M.D. Zelinskogo Akademii nauk SSSR. Predstavleno akademikom B.A. Karanskis.

(Boron organic compounds)



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VAVEE,

AUTHOR3:

Mikhaylov, B. M., Vaver, V. A.,

62-58-4-5, 32

TITLE:

Boron-Organic Compounts (Boronganicheskiye soyedineniya)

Communication 22: On the Mechanism of Hydrolysis of

Diarylboric Enters (Soobshcheniye 22: 0 mekhanisme gidroliva

efirov diarilbornykh kislot)

PERIODICAL: Izvestiya Ahademii Nauk SSSR, Otdeleniye Khimicheskikh Nauk,

1958, Nr 4, pp. 419-424 (USSR)

ABSTRACT:

The alkylesters of diarylboric acids are stable against the effect of hydrolining agents, as there are acids and hydroxides of alkaline metals. On their action the esters of diarylboric acids dissolve by forming the sults of

diarylalkoxyboric acids (see formula II). Such salts convert only to a small degree into diarylboric acids (formula IV). Mainly a cleavage of the elements of water and not of alcohol takes place (with intermediate diarylalkoxyboric acids).

Then a reconversion of these into the initial ester takes place (see formula 1-4). The hydrolysis of the enters of

diarylboric acids takes place very easily under the influence

Card 1/3

of ammonia dissolved in water (or barium hydroxide). In the

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62-58-4-5/32

Boron-Organic Compounds. Communication 22: On the Mechanism of Hydrolysis of Diarylboric Ester,

previous paper the mechanism of saponification of the esters of diarylboric acid was discussed. In the first reaction stage ammoniseates of the esters of diarylboric acids form with subsequent hydrolysis (formula 7). A second possibility for the formation of ammoniam salts of ammonia-cates by displacement of ammonia into the cuter sphere of the complex with simultaneous formation of diarylalkoxyborates of ammonium does not exist as these compounds can be hydrolized (formulae VI, VIII, IX). A number of esters of diarylboric acids and their ammoniacates were syntheticed. Furthermore hitherto unknown Di-o-tolyl and Di-j-tolylboric acids and their derivatives were produced. There is 1 table, and 7 references, 2 of which are Soviet.

Card 2/3

步。1987年1月1日 - 1987年1月1日 - 1987年1日 -

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001859030002-3"

62-58-4-5/32

CONTRACTOR OF THE CONTRACTOR OF THE PROPERTY O

Boron -Organic Compounds. Communication 22: On the Mechanism of Hydrolysis of Diarylboric Esters

ASSOCIATION: Institut organicheskoy khimii im. N. D. Zelinskogo Aka-

demii nauk SSSR (Institute for Organic Cheristry imeni

N. D. Zelinskiy, AS USSR)

SUBMITTED: November 20, 1956

AVAILABLE: Library of Congress

1. Moron compounds 2. Disrylboric esters -- Hydrolysis

processes

Card 3/3

MIKHAYLOV, B.M.; VAVER, V.A.

Organoboron compounds. Report No.22 Hydrolysis mechanism of the diarylborates. Izv. AN SSSR Otd. khim. nauk no.4:425-427 Ap '58. (MIRA 11:5)

1.Institut organicheskoy khimii im. N.D. Zelinskogo Akademii nauk SSSR.

(Hydrolysis) (Boric acid)

· 1000年1月1日 - 1

VAVER, V.A.; PROKATOW, N.V.; USHAMOV, A.H.; FOLKOW, G.A.; EFFCHILLE, I.E.

Chemistry of lipids. Report No.5. Dihydric alcohol derivatives as new kinds of neutral lipids. Khim. prirod. 208d. ro.n.t/01-165.

(MRA 1911)

1. Institut khimii prirodnykh soyedineniy AN SSSE. Calmitted June 21, 1965.

L 26541-66 EWT(m) SOURCE CODE: UR/0062/66/000/003/0506/0511 ACC NR. AP6017362 AUTHOR: Bergel'son, L. D.; Vaver, V. A.; Barsukov, L. I.; Shemyakin, M. M. ORG: Institute of Chemistry of Natural Compounds, AN SSSR (Institut khimii prirodnykh soyedineniy AN SSSR) TITLE: Stereoregulated synthesis of unsaturated compounds. Report 10. Stereochemistry of the reactions between aldehydes and phosphonate- and phosphinoxide-carbanions SOURCE: AN SSSR. Izvestiya. Seriya khimicheskaya, no. 3, 1966, TOPIC TAGS: stereochemistry, organic synthetic process, aldehyde, organic phosphorus compound ABSTRACT: The reaction between phosphonate- and phosphinoxide-carbanions with aromatic and aliphatic aldehydes leads selectively to the trans-olefins. The steric trend of the reaction does not depend on the polarity of the medium. Orig. art. has: 5 figures and 2 tables. [JPRS] SUBM DATE: 05Nov63 / ORIG REF: 008 / OTH REF:

BERGEL'SON, L.D.; VAVER, V.A.; PROKAZOVA, N.V.

New types of neutral lipids. Dokl. AN SSSR 157 no.1:122-124 Jl '64 (MIRA 17:8)

l. Institut khimii prirodnykh soyedineniy AN SSSR. Predstavleno akademikom M.M. Shemyakinym.

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001859030002-3"

VAVER, V.A.; PROKAZOVA, N.V.; BERGEL'SON, L.D.

New types of neutral lipids. Izv.AN SSSR.Ser.khim. no.2:392 F
(64.e)

1. Institut khimii prirodnykh soyedineniy AN SSSR.

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001859030002-3"

BERGEL'SON, L.D.; VAVER, V.A.; BARSUKOV, L.I.; SHEMYAKIN, M.M.

Unsaturated acids and macrocyclic lactones. Report No.11: Total synthesis of cis-8-hexadecenoic, cis-11-hexadecenoic (palmitvaccenic), cis-7-octadecenoic, and cis-9-hexacosanoic acids. Izv.AN SSSR. Ser.khim. no.8:1417-1421 Ag '63. (MIRA 16:9)

1. Institut khimii prirodnykh soyedineniy AN SSSR.

(Hexadecenoic acid) (Octadecenoic acid) (Hexacosanoic acid)

PERGEL'SON, L.D.; VAVER, V.A.; BARSUKOV, L.I.; SHEMYAKIN, M.M.

Stereochemistry and the mechanism of Wittig reaction. Izv. AN SSSR.
Otd.khim.nauk no.6:1053-1063 Je '63. (MIRA 16:7)

1. Institut khimil prirody soyedineniy AN SSSR.
(Stereochemistry) (Wittig reaction)

BERGEL'SON, L.D.; VAVER, V.A.; BARSUKOV, L.I.; SHEMYAKIN, M.M.

Intramolecular acylation of phosphorylides and a new way of synthesizing of substituted cyclopentanones. Izv. AN SSSR.

Otd.khim.nauk no.6:1134-1136 Je '63. (MIRA 16:7)

1. Institut khimii prirodykh soyedineniy AN SSSR.

(Cyclopentanone)

(Phosphorus organic compounds)

BERGEL'SON, L.D.; VAVER, V.A.; SHEMYAKIN, M.M.

New method of synthesizing cis-cis-dienether systems.

Izv. AN SSSR.Otd.khim.nauk no.10:1894-1895 0 162. (MIRA 15:10)

 Institut khimii prirodnykh soyedineniy AN SSSR. (Methane) (Butadiene)

Unsaturated acids and macrocyclic lactones. Part 3: Using Wittig reaction for the synthesis of higher fatty acids with a branched chain. Zhur.ob.khim. 32 no.6:1807-1811 Jr 162. (MIRA 15:6) (Acids, Fatty) (Wittig reaction)

BERGEL'SON, L.D.; VAVER, V.A.; KCVTUN, V.Yu.; SENYAVINA, L.B.; SHEMYAKIN, M.M.

Unsaturated acids and macrocyclic lactones. Part 2: Sterecspecific method for synthesizing natural unsaturated fatty acids with the aid of Wittig reaction. Zhur.ob.khim. 32 no.6:1802-1807 Je 162. (MIRA 15:6)

(Acids, Fatty) (Wittig Jesstion) (Unsaturated compounds)

NUMBER OF THE STATE OF THE STAT

BERGEL'SON, L.D.; VAVER, V.A.; BARSUKOV, L.I.; SHEMYAKIN, M.M., akademik

Mechanism and steric course of the Wittig reaction as affected by external factors. Dokl. AN SSSR 143 no.1:111-114 Mr '62. (MIRA 15:2)

1. Institut khimii prirodnykh soyedineniy AN SSSR.
(Wittig reaction)
(Stereochemistry)

VAVER, V. A., SHEMYAKIN, M. M., BERGELSON, L. D. (USSR).

"A New Way of Fatty Acid Synthesis."

Report presented at the 5th International Biochemistry Congress,
Moscow, 10-16 August 1961

BERGEL'SON, L.D.; VAVER, V.A.; SHEMYAKIN, M.M.

Effect of the solvent on the steric course of the Wittig reaction.

Izv.AN SSSR Otd.khim.nauk no.4:729-730 Ap '61. (MIRA 14:4)

1. Institut khimii prirodnykh soyedineniy AN SSSR. (Chemical reaction)

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001859030002-3"

The fraction with the gradient court of the court of the

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S/079/61/031/002/010/019 B118/B208

5.3700

Mikhaylov, B. M. and Vaver, V. A.

AUTHORS:

Organoboron compounds. LXVII. Reactions of trialkyl borines

with organic acids

PERIODICAL:

Zhurnal obshchey khimii, v. 31, no. 2, 1961, 574-577

TEXT: Following their previous paper (Ref. 1) on the effect of compounds having a mobile hydrogen atom (water, alcohols, phenols, amines, mercaptans, thiophenol) on trialkyl borines, which gives compounds of type (I), and saturated hydrocarbons and H_2 ($R_3B + HYR^1 \longrightarrow R_2BYR^1 + RH + R_{-H} + H_2$ (Y

= 0, NH, S: R' = H or a carbon radical), the authors now investigated the conversions of trialkyl borines on reaction with organic acdis. Except for the reaction of acetic acid with triethyl borine giving diethyl boro acetic anhydride and ethane carried out by H. Meerwein, H. Sönke (Ref. 2), no further reactions of this type have been described. The experiments made by these two scientists were repeated, and their data confirmed at equimolecular quantity

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Organoboron compounds. LXVII. ...

S/079/61/031/002/010/019 B118/B208

of acetic acid is doubled, ethyl pyro-boro acetic anhydride is formed via the monoacetate. The formation of the latter is explained by the fact that the monoacetate is converted to ethylyl boro acetic anhydride two molecules of which split off one molecule of acetic anhydride. The synthesis of mixed anhydrides of organopyro-boric and organic acids had been carried out earlier by N. S. Fedotov and T. A. Shchegoleva (Refs. 3-5). Also the higher trialkyl borines react with acetic acid, even at room temperature, with spontaneous heating to 50-60°C; further heating of the reaction mixture between 60 and 100° soon completes the reaction. Contrary to triethyl borine, the higher trialkyl borines react with acetic acid to give the corresponding alkyl pyro-boro acetic anhydrides. At excess acetic acid, n-butyl pyro-boro acetic anhydride $(V,R = n - C_4H_9)$ or isobutyl pyro-boro acetic anhydride (V, R = iso - C_4H_9) result after separation of two moles of the saturated hydrocarbon, and in subsequent distillation of the reaction mixture (Refs. 4, 5): RB — 0 — BR (V). OCOCH₃ OCOCH Card 2/3

89517

Organoboron compounds. LXVII. ...

S/079/61/031/002/010/019 B118/B208

On reaction of chloro acetic acid with tri-n-butyl borine, the anhydrides of n-butyl boric and chloro acetic acids and n-butane result. There are 5 references: 4 Soviet-bloc.

SUBMITTED: March 14, 1960

X

Card 3/3

MIKHAYLOV, B.M.; VAVER, V.A.

Organoboron compounds. Report No. 56: Synthesis of trialkyl borons from metaborates, and their conversion into esters of dialkylboronic acids. Izv.AN SSSR Otd.khim.nauk no.5:852-856

1. Institut organicheskoy khimii imeni N.D. Zelinskogo Akademii (Boron organic compounds) nauk SSSR.

CIA-RDP86-00513R001859030002-3" APPROVED FOR RELEASE: 08/31/2001

CIA-RDP86-00513R001859030002-3 "APPROVED FOR RELEASE: 08/31/2001

501/19-27-7-31/83 Mikhaylov, B. M., Vaver, V. A. 5.(3) Urganoboron Compounds (Bororganicheskiye soyedineniya). AUTHURS: XXXVII. Lithium Salts of the Diaryl Boric Acids and Their TITLE: Complex Compounds with Dioxane (XXXVII. Litiyevyye soli diarilbornykh kislot i ikh kompleksnyje soyedineniya s dioksanom) Zhurnal obshchey khimii, 1959, Vol 29, Nr 7, pp 2248-2253 (USSR) PERIODICAL: In continuation of earlier investigations the authors show that diaryl boric acids react like protonic acids in annydrous ABSTRACT: media. Unexpectedly they obtained the lithium salt of di-x--naphthyl boric acid $(\alpha-C_{10}H_{1})_{2}$ boric (1) as the main product in the reaction of phenyl lithium with di-1-naphthyl boric acid.

This salt is formed even more easily from n.-butyl lithium and di-x-naphthyl boric acid in benzene solution (Scheme 2). The reaction of n.-butyl lithium with di-o-tolyl boric acid (Scheme 5) which leads to the formation of a mixture from the lithium salts of di-o-tolyl- and o-tolyl butyl boric acid, is much more complicated. Their formation is explained by the decomposition of compound (III), in contrast to (II), under the separation of butane and toluene. With dioxane in absolutely annydrous ether

Card 1/3

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001859030002-3"

Organoboron Compounds. AXAVII. Lithium Salts of 30V/19-29-1-51/85 the Diaryl Boric Acids and Their Complex Compounds with Dioxane

it was possible to separate from this salt mixture the pure lithium salt of the di-o-tolyl boric acid in the form of its complex compound with dioxane. The lithium salt of o-tolylbutyl boric acid could not be separated, its presence, however, was round to be probably due to the resultant per cent content or boron (Refs 4,5). In order to prevent the formation of salts of aryl butyl boric acids, only o-tolyl or p-tolyl lithium were used in the experiments for obtaining the lithium salts of di-o-toly- and di-p-tolyl boric acid. The necessary individual organolithium compounds were obtained by the reaction of n.--butyl lithium with aryl bromides in benzene dioxane solution and in the form of their crystalline dioxanates (Ref 6). The p-tolyl lithium was synthesized from n.-butyl lithium and tri-p-tolyl antimony (Ref 6). By this method the lithium salt of di-p-tolyl boric acid and the dioxanate of the lithium salt of the di-o-tolyl boric acid were obtained. The dioxanates of the lithium salts of the diaryl boric acids may be synthesized directly by the reaction of lithium compounds with the dioxerates of the diaryl boric acids (e. g. compound (V) according to

Card 2/5

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CIA-RDP86-00513R001859030002-3 "APPROVED FOR RELEASE: 08/31/2001

307/79-29-7-31/83 Organoboron Compounds. XXXVII. Lithium Salts of the Diaryl Boric Acids and Their Complex Compounds With Dioxane

scheme 5). There are 7 references, 6 of which are Soviet.

AJSOCIATION: Institut organicheskoy khimii Akademii nauk SSJR (Institute of Organic Chemistry of the Academy of Sciences, USSR)

June 26, 1958 SUBMITTED:

Card 3/3

CIA-RDP86-00513R001859030002-3" APPROVED FOR RELEASE: 08/31/2001

5(2,3)
AUTHORS: Mikhaylov, B. M., Vaver, V. A., Bubnov, Yu. N.

TITLE: Organoboron Compounds (Bororganicheskiye soyedineniya). Reactions
Between Boron Trialkyls and Compounds Containing Mobile Hydrogen (Reaktsii bortrialkilov s soyedineniyami, soderzhashchimi
podvizhnyy vodorod)

PERIODICAL: Doklady Akademii nauk SSSR, 1959, Vol 126, Nr 3, pp 575 - 578 (USSR)

ABSTRACT: The ability of aliphatic boron compounds to undergo the reactions mentioned in the subtitle is very little investigated (Refs 1-6). Triallyl boron possesses, however, an extraordinary sensitivity to the reagents mentioned in the subtitle. It reacts with water, alcohols and amines, even at room temperature. One or two allyl radicals are replaced by corresponding groups. For these reasons, the subject mentioned in the subtitle was of considerable interest. The influence of the nature of initial substances on the rupturing process of the boron-carbon compound could be established. The authors studied the reactions between trinpropyl-, tri-isopropyl-tri-n-butyl, tri-isobutyl- and tri-isomyl-boron on one hand, and water, alcohol, phenol, amines and

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Organoboron Compounds. Reactions Between Boron Trialkyls SOV/20-126-3-32/69 and Compounds Containing Mobile Hydrogen

mercaptans on the other hand. It has been found that higher boron trialkyls react energetically with water at 160-170°. Dialkyl boric acids (I) are formed which are isolated in the distillation as acid anhydrides with yields of 65-71% (Table 1). The reaction is accompanied by the formation of olefine hydrocarbons and hydrogen as well as saturated hydrocarbons (see Scheme). The occurring relative hydrocarbon- and hydrogen quantities depend on the test conditions. Boron trialkyls react under the same conditions with aliphatic alcohols or with phenol. Thus, they form alkyl or phenyl ester of the dialkyl boric acids (II) with yields of 65-80%, as well as saturated and olefine hydrocarbons and hydrogen. These reactions, as well as those of the aliphatic and aromatic amines (III), finally those of the mercaptans (IV), proceed in stages: they run through a stage of complex compounds of boron trialkyls and oxygen-, nitrogen- and sulphur-addenda (V). These compounds (V)(1) undergo two kinds of trunsformations: a) the complexes decompose into saturated hydrocarbons and corresponding ommoboron compounds (VI)(2). It seems here that a proton is removed from the heterogeneously bound atom, and the alkyl group is split

(x,y) = (x,y) + (y) +

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Organoboron Compounds. Reactions Between Boron Trialkyls SOV/20-126-3-32/69

off as an anion from the boron atom. b) Olefine hydrocarbon and hydrogen are eliminated and formed (VI) according to scheme (3). This process is most distinctly marked at the interaction of the boron trialkyls with water, alcoholand (3) is also possible with the formation of dialkyl boranes (VII) which then separate a hydrogen molecule. The above reactions are simple and easy methods of producing the mentioned compounds. There are 1 table and 10 references, 2 of which are Soviet.

ASSOCIATION: Institut organicheskoy khimii im. N. D. Zelinskogo Akademii nauk of the Academy of Sciences, USSR)

PRESENTED. Follows

PRESENTED: February 9, 1959, by B. A. Kazanskiy, Academician SUBMITTED: February 9, 1959

Card 3/3

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001859030002-3"

VAVER, V. A.

/ AUTHORS:

Alekseyeva, Ye. R., Taver, T. A.

SCY/156-58-3-37/52

TITLE:

The Deposition of Phthalimide on the Esters of $\alpha-$, $\beta-$ Unsaturated Acids (Prisoyedineniye ftalimida k efiram α , β -nenasyshchennykh

PERIODICAL:

Nauchnyye doklady vysshey shkoly, Khimiya i khimicheskaya tekhnologiya, 1958, Nr 3, pp. 545 - 549 (USSR)

ABSTRACT:

The possibility of the use of the catalyst of Radionov was investigated in the deposition of phthalimide on the double bonds of the alkalidenemalonic and alkalideneacetoacetic esters, the esters of cinnenic acid and benzene acetone. The reaction takes place effectively for the ethylidene-, propylidene-, isoamilidene-, and benzolidene-malonic esters. The acid hydrolisis of the phthalimide derivatives of the alkilidene malonic esters leads to the corresponding β -amino acids. By employing this method β -aminoisoeneanthic acid, β -aminobutyric acid, β -aminovaleric acid, and β -amims- β -phenylpropionic acid were synthetized for the first time. There are 2 tables and 6 refer-

Card 1/2

ences, 1 of which is Soviet.

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001859030002-3"

The Deposition of Phthalimide on the Esters of α -, β -Unsaturated Acids

SOV/156 - 58 - 3 - 37/52

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ASSOCIATION:

Kafedra organicheskoy khimii Moskovskogo khimikotekhnologicheskogo instituta im.D.I.Mendeleyeva (Chair of Inorganic Chemistry at the Moscow Chemical and Technological Institute imeni D.I.Mendeleyev)

SUBMITTED:

November 19, 1957

Card 2/2

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BERGEL'SON, L.D.; VAVER, V.A.; SHEMYAKIN, M.M.

New method of synthesizing unsaturated acids. Izv. AN SSSR Otd. khim. nauk no.10:1900 0 160. (MIRA 13:10)

1. Institut khimii prirodnykh soyedineniy AN SSSR. (Unsaturated compounds) (Acids, Organic)

0 w	Organoboron compounds. Part 67: Reactions of boron trialkyls with organic acide. Zhur. ob. khim. 31 no. 2:574-577 F 161. (LL. 14:2)			
	(Beron erganic	com cunda)	(Acetic acid)	:2)
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VATAGAN, V. A.

工作证明的证据是是"现代"的证明,

VAVENAN, V. A. -- "Crystalline Acting Substances of Branchy Fern -- Dryopteris Dilatata Asa Gray." Latvian State U, 1952. In Latvian (Dissertation for the Degree of Candidate of Pharmaceutical Sciences)

SO: Izvestiya Ak. Nauk Latviyskoy SSR, No. 9, Sept., 1955

VAVERAN, V.A.

USSR/Cultivated Plants. Medicinal. Essential Oils. Poisons. M-9

Abs Jour: Ref Zhur-Biologiya, No 5, 1958, 20572.

Author : V. Vaverane Inst : Not given.

Title : Some Relative Data on Male and Branchy Ferns.

(Nekotoryye sravitel'nyye dannyye o muzhskom i raskidistom

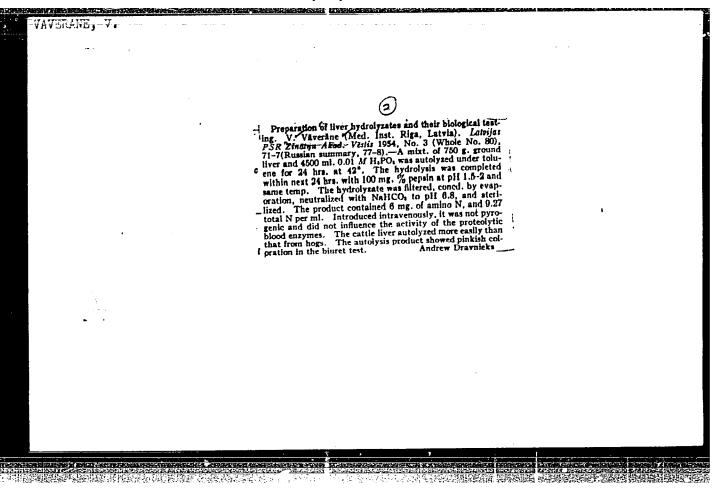
paporotnike).

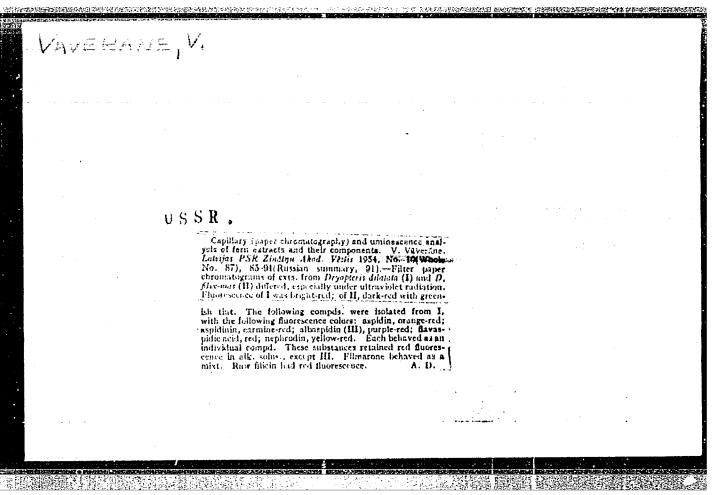
Orig Pub: Izv. AN LatvSSR, 1956, No 7, 81-88.

Abstract: Investigation of an extract from the male fern has estab-

lished that its constant constituent parts are flavaspidic and filixic acids. A study of extracts from the branchy fern was made on 10 specimens, collected at different times and in different rayons of the Latvian SSR. It was established that the number of crystallized substances in these extracts depends basically on the place and condi-

Card : 1/2





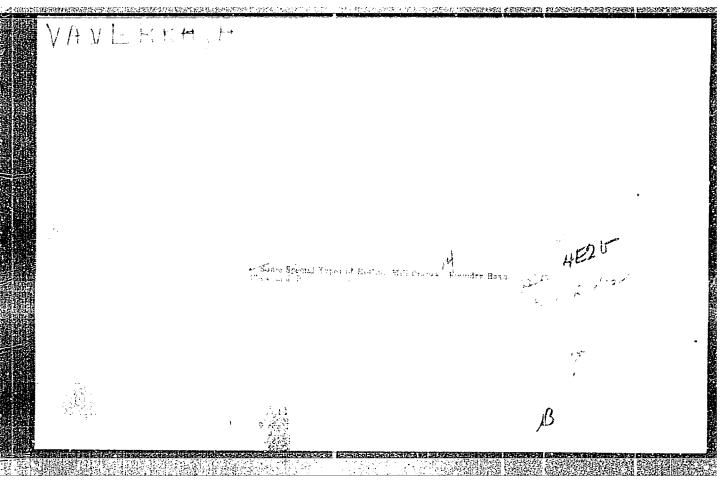
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NEYLAND, 0.; VAVERE, M.

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(Hydrindacene) (Carbonyl group)



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CZECHOSLOVAKIA 25 Sep 63

MORNE BURNESS CHARLES FOR STREET

VAVERKA, Jan

Chairman, Commission for Construction, North Moravian Kraj National Committee in Ostrava, author of an article on the situation in the construction in Ostrava Okres.

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